

Work Order ID 138530

138530

Page 1

Friday, October 30, 2015 1:23:29 PM

Item ID: D4897-041 Accept *N900040100* Setup Start *NS1*

Revision ID: Stop *NS2*

Item Name: Dome Light Wiring

Start Date: 10/30/2015 Start Qty: 2.00 *2*

Required Date: 11/20/2015 Req'd Qty: 2.00 *2*

Reference: REWORK RHEOSTATE AS PER DRAWING

Cust Item ID:

Customer:

Approvals: Process Plan: [Signature] Date: 10.30.15 Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4897	REV A								

105

0.00

105

Small Fab

Small Fab

Memo

0.00

PULL DROM STOCK
D4897-041 X2 + 1x D4897-041 B 128025
B:128025

TO REWORK AS PER DRAWING
GRIND AND CUT 1 TO 2 WIRES AND APPLY PROTECTIVE COATING

SEE PICTURE FOR CORRECT SIDE

*1 Replace Rheostat on the

115

QC5- Inspect part completeness to step on W/O

0.00

115

QC

Memo

0.00

Quality Control

7 MB 10-10-30
2 (1) 15/11/02
PTO. →

(3)

DAS
38
9-89

NOV 17 2015

DQA:

Date: 16.03.10



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed

Date: 16/04/29

Work Order update only

Work Order: 138530		DISPOSITION		AGAINST DEPARTMENT/PROCESS					
Part No. D 4897-041		Rework ☒		Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☒		
NCR No. 16-5755		Scrap ☐		Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐		
		Use-as-is ☐		Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐		
		Suspected Unapproved ☐		Large Fab ☐	Composite ☐	Supplier ☐			
Date: 15/11/02		Step #: 100		QTY Effective: (2)			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition			PD 16.02.24		
Cut wrong side. wires on rheostat was cut on wrong side. reostat dng. was update with note.				Hold in Quarantine to replace potentiometer Rheostat. Scrap 2 Rheostats Replace Rheostat with good ones. B. 138542 Dk 15/11/12. DONE Dt. 15/11/12. X2			Completed By Wh. 16-04-02 Lead hand / Supervisor Approval Verification Wh. PD 16-04-02 QC / QA Coordinator Approval 9-58 NOV 17 2015		
Root Cause				FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☒	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☒				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Forming Equipment ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

Work Order ID 138530

138530

Page 2

Friday, October 30, 2015 1:23:29 PM

Item ID: D4897-041 Accept *N900040100* Setup Start *NS1*

Revision ID: Stop *NS2*

Item Name: Dome Light Wiring

Start Date: 10/30/2015 Start Qty: 2.00 *2*

Required Date: 11/20/2015 Req'd Qty: 2.00 *2*

Reference: REWORK RHEOSTATE AS PER DRAWING

Cust Item ID:

Customer:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location <i>MF007</i>	0.00							
130						3	<i>6</i>		
Packaging	Memo	0.00					<i>6</i>		NOV 18 2015
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

MC5 JAN 04 2016

MC5 NOV 18 2015

SA 20151118

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Skid-tube ☐</td> <td style="width: 15%;">Cross tube ☐</td> <td style="width: 15%;">Water Jet ☐</td> <td style="width: 15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																							
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OTHER : ☐																																																															

Picklist Print

Friday, October 30, 2015 1:23:32 PM

Page 1

Work Order ID: 138530

138530

Parent Item: D4897-041

D4897-041

Parent Item Name: Dome Light Wiring

Start Date: 10/30/2015

Required Date: 11/20/2015

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP Rev. A New Issue 13/09/25 DL

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4897-041		Manufactured	No				Each	0.0000		2			
D4897-041									**				
Dome Light Wiring													

B12802S X2 14 15-10-30

*
D4864-1
Rheostat.

B138542 X2 15-11-12 JH
B

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td style="border: none;"></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
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List Lots

Page 1 of 1

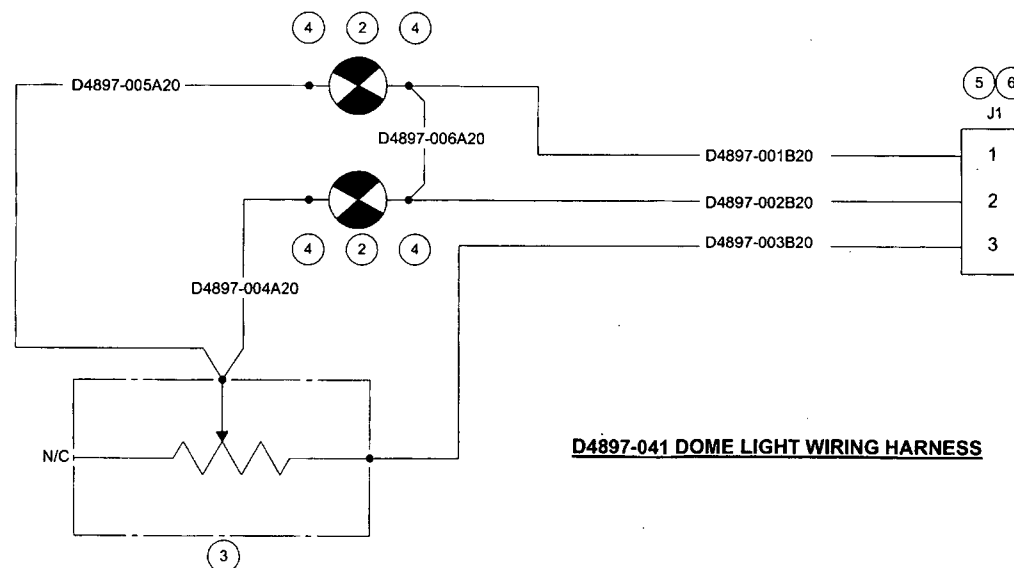
Thursday, October 29, 2015 1:53:28 PM

Criteria : Item ID: d4897-041 All Locations All Warehouses All Quantity

Item ID Item Name	Warehouse ID Location ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt Lot Code	Type Code	Comments
D4897-041 Dome Light Wiring	Main Warehouse QUAR	128025	8/12/2015	2.0000	QC21		
Total:				2.0000			

137530

ITEM NO.	QTY -041	PART NUMBER	DESCRIPTION	SUPPLIER
1	X	D4897-041	DOME LIGHT WIRING HARNESS	DART
2	2	D4872-1	LIGHT FIXTURE	DART
3	1	D4864-1	RHEOSTAT	DART
4	4	D4290-21	RING TERMINAL	DART
5	1	1-480305-0	CONNECTOR, PLUG	AMP
6	3	60618-1	CONTACT, PIN	AMP



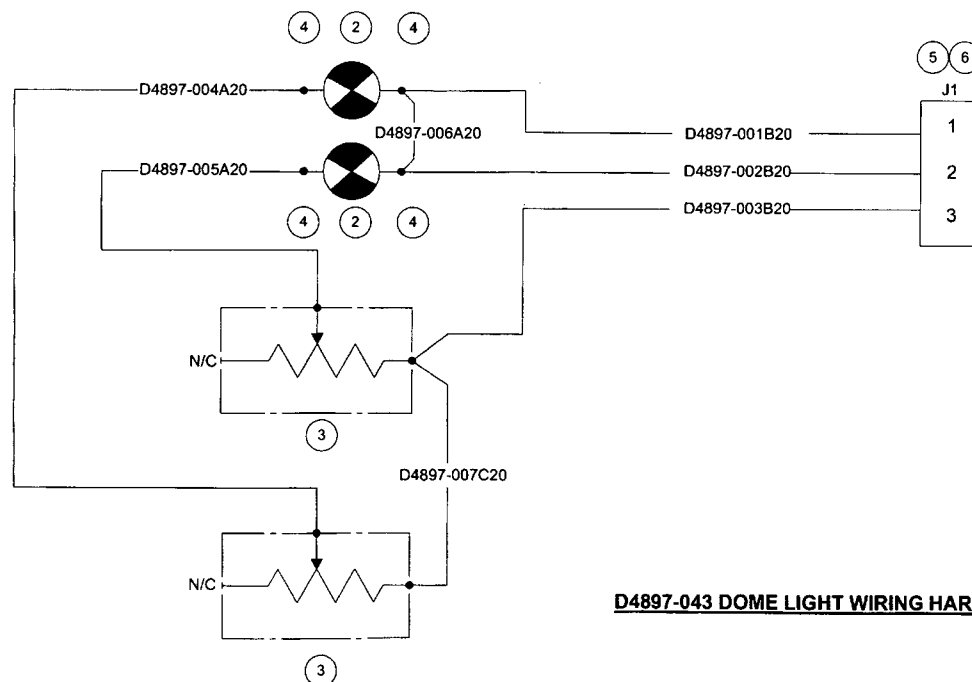
WIRE NUMBER	LENGTH (in)
D4897-001B20	7.0
D4897-002B20	7.0
D4897-003B20	5.5
D4897-004A20	4.0
D4897-005A20	4.0
D4897-006A20	9.0

D4897-041 DOME LIGHT WIRING HARNESS

REV.	NEW ISSUE	DESCRIPTION	BY	DATE
DESIGN	OS	DART AEROSPACE USA, INC. KENT, WA	OS	13.07.24
DRAWN	OS			
CHECKED	CB	DRAWING NO.	REV. A	
MFG. APPR.	U	D4897	SHEET 1 OF 3	
APPROVED	AS	TITLE	SCALE	
DE APPR.	HA	DOME LIGHT WIRING HARNESS	NENTS	
DATE	13.07.24	COPYRIGHT © 2013 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.		

- NOTES:
- 1) ALL NEW UNSHIELDED WIRE USE M22759/41-xx-9 TYPE WIRE UNLESS OTHERWISE SPECIFIED
 - 2) SOLDERABILITY CAN BE ACHIEVED WITH THE PROPER SOLDER.
 - 3) ALL WIRES 20 AWG UNLESS OTHERWISE SPECIFIED
 - 4) IDENTIFY CODE ALL WIRES AND CABLES IN ACCORDANCE WITH AC43 13-1B, SECTION 16, WIRE MARKING
 - 5) KEEP ALL JUMPERS AS SHORT AS POSSIBLE.
 - 6) ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH EUROCOPTER STANDARD PRACTICES MANUAL 20.80 20
 - 7) ALL CONNECTORS TO BE INSTALLED IN ACCORDANCE WITH TYCO ELECTRONICS INSTRUCTION SHEET 408-7201 DETENT-ENGAGEMENT MATE-N-LOCK CONNECTORS
 - 8) ROUTE ALL WIRES AND CABLES IN ACCORDANCE WITH CHAPTER 98 OF ICA129-2.
 - 9) UNITS: INCHES UNLESS OTHERWISE NOTED.
 - 10) IDENTIFY CONNECTORS WITH SHRINK SLEEVE LABELS IN ACCORDANCE WITH AC43.13-1B, SECTION 16, WIRE MARKING

ITEM NO.	QTY -043	PART NUMBER	DESCRIPTION	SUPPLIER
1	X	D4897-043	DOME LIGHT WIRING HARNESS	DART
2	2	D4872-1	LIGHT FIXTURE	DART
3	2	D4864-3	RHEOSTAT	DART
4	4	D4290-21	RING TERMINAL	DART
5	1	1-480305-0	CONNECTOR, PLUG	AMP
6	3	60618-1	CONTACT, PIN	AMP



WIRE NUMBER	LENGTH (in)
D4897-001B20	7.0
D4897-002B20	7.0
D4897-003B20	5.5
D4897-004A20	4.0
D4897-005A20	4.0
D4897-006A20	8.0
D4897-007C20	7.5

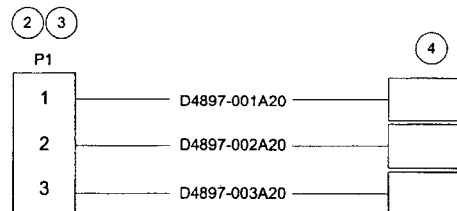
D4897-043 DOME LIGHT WIRING HARNESS

RELEASED
2013-09-16
WNP

- NOTES:
- 1) ALL NEW UNSHIELDED WIRE USE M22759/41-xx-9 TYPE WIRE UNLESS OTHERWISE SPECIFIED
 - 2) SOLDERABILITY CAN BE ACHIEVED WITH THE PROPER SOLDER.
 - 3) ALL WIRES 20 AWG UNLESS OTHERWISE SPECIFIED
 - 4) IDENTIFY/CODE ALL WIRES AND CABLES IN ACCORDANCE WITH AC43.13-1B, SECTION 16, WIRE MARKING
 - 5) KEEP ALL JUMPERS AS SHORT AS POSSIBLE.
 - 6) ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH EUROCOPTER STANDARD PRACTICES MANUAL 20.80.20
 - 7) ALL CONNECTORS TO BE INSTALLED IN ACCORDANCE WITH TYCO ELECTRONICS INSTRUCTION SHEET 408-7201 DETENT-ENGAGEMENT MATE-N-LOCK CONNECTORS
 - 8) ROUTE ALL WIRES AND CABLES IN ACCORDANCE WITH CHAPTER 98 OF ICA129-2.
 - 9) UNITS: INCHES UNLESS OTHERWISE NOTED.
 - 10) IDENTIFY CONNECTORS WITH SHRINK SLEEVE LABELS IN ACCORDANCE WITH AC43.13-1B, SECTION 16, WIRE MARKING

DESIGN	OS	DART AEROSPACE USA, INC.	
DRAWN	OS	KENT, WA	
CHECKED	CB	DRAWING NO.	REV. A
MFG. APPR.	W	D4897	SHEET 2 OF 3
APPROVED	W	TITLE	SCALE
DE APPR.	W	DOME LIGHT WIRING HARNESS	
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ITEM NO.	QTY -045	PART NUMBER	DESCRIPTION	SUPPLIER
1	X	D4897-045	DOMELIGHT WIRING HARNESS	DART
2	1	1-480303-0	CONNECTOR, SOCKET	AMP
3	3	60617-1	CONTACT, SOCKET	AMP
4	3	8-320559-2	SPLICE	AMP



WIRE NUMBER	LENGTH (in)
D4897-001A20	4.0
D4897-002A20	4.0
D4897-003A20	4.0

D4897-045 DOME LIGHT WIRING HARNESS

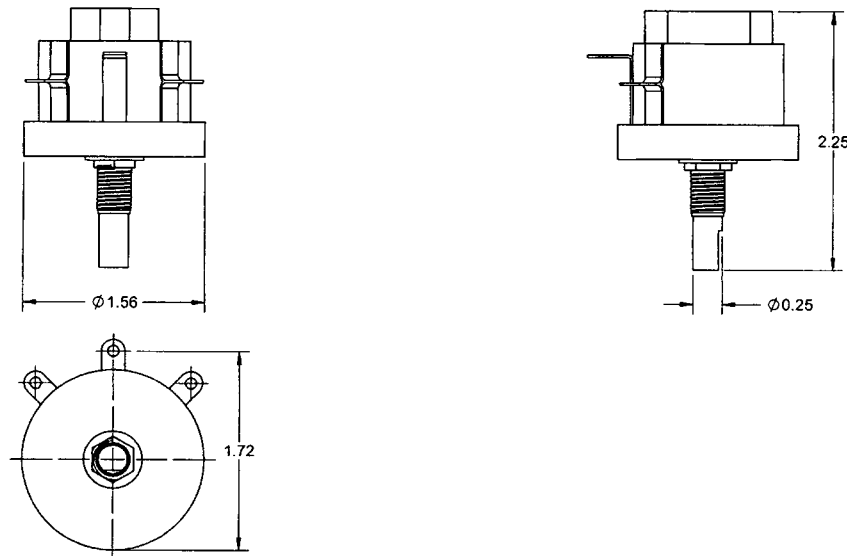
RELEASED
2013-09-16

NOTES:

- 1) ALL NEW UNSHIELDED WIRE USE M22759/41-xx-9 TYPE WIRE UNLESS OTHERWISE SPECIFIED
- 2) ALL WIRES 20 AWG UNLESS OTHERWISE SPECIFIED
- 3) IDENTIFY/COIL ALL WIRES AND CABLES IN ACCORDANCE WITH AC43.13-1B, SECTION 16, WIRE MARKING
- 4) KEEP ALL JUMPERS AS SHORT AS POSSIBLE
- 5) ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH EUROCOPTER STANDARD PRACTICES MANUAL 20.80.20
- 6) ALL CONNECTORS TO BE INSTALLED IN ACCORDANCE WITH TYCO ELECTRONICS INSTRUCTION SHEET 408-7201 DETENT-ENGAGEMENT MATE-N-LOCK CONNECTORS
- 7) ROUTE ALL WIRES AND CABLES IN ACCORDANCE WITH CHAPTER 98 OF ICA129-2.
- 8) UNITS: INCHES UNLESS OTHERWISE NOTED.
- 9) IDENTIFY CONNECTORS WITH SHRINK SLEEVE LABELS IN ACCORDANCE WITH AC43.13-1B, SECTION 16, WIRE MARKING

DESIGN	OS	DART AEROSPACE USA, INC.	
DRAWN	OS	KENT, WA	
CHECKED	CB	DRAWING NO.	REV. A
MFG. APPR.	U	D4897	SHEET 3 OF 3
APPROVED	U	TITLE	SCALE
DE APPR.	U	DOMELIGHT WIRING HARNESS	
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SPECIFICATION CONTROL DRAWING



D4864-X RHEOSTAT

DART PART NUMBER	DESCRIPTION	VOLTAGE	CURRENT	VENDOR	VENDOR PART NUMBER	WEIGHT (LBS)	REPLACES GENEVA P/N
D4864-1	RHEOSTAT	500 RMS	25 WATTS	OHMITE	H-50-F2-352AE	0.18	G10011
D4864-3	RHEOSTAT	500 RMS	25 WATTS	OHMITE	H-100-F2-352AE	0.18	G12889

RELEASED
2013-09-16
WMP

A	NEW ISSUE	OS	13.06.21
REV.	DESCRIPTION	BY	DATE
DESIGN	OS	DART AEROSPACE USA, INC. KENT, WA	
DRAWN	OS	DRAWING NO.	REV. A
CHECKED	PC	D4864	SHEET 1 OF 1
MFG. APPR.	W	TITLE	SCALE
APPROVED	W	RHEOSTAT	NTS
DE APPR.	W	DATE 13.06.21	

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- NOTES:
- 1) MATERIAL: PER TABLE
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
 - 7) WEIGHT: PER TABLE